K-12 Educator Professional Development (Non-Content Specific)

Program description:

Professional development for K-12 teachers includes activities such as workshops, conferences, summer institutes, and time set aside during the school year for general staff development. In this analysis, we estimate the impact of providing one additional day of professional development time.

Typical age of primary program participant: 10 Typical age of secondary program participant: N/A

Meta-Analysis of Program Effects

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Outcomes Measured	Primary or Second-	No. of Effect Sizes			ect Sizes s Model)	Adj	<i>(</i>			andard E	
	ary Partici- pant		ES	SE	p-value		st time ES estimated SE		Se ES	cond time estimate SE	
Test scores	Р	4	0.00*	0.00	0.99	0.00	0.00	11	0.00	0.00	17

^{*}actual ES = -.00001 before rounding

Benefit-Cost Summary

		Prog	ram Be	nefits		Costs		Summa	ry Statist	ics
The estimates shown are present value, life cycle		-	-				ĺ		-	
benefits and costs. All dollars are expressed in								Datum		Drobobility
the base year chosen for this analysis (2011).								Return		Probability
The economic discount rates and other relevant							Benefit	on	Benefits	of a positive
parameters are described in Technical Appendix	Partici-	Tax-		Other	Total		to Cost	Invest-	Minus	net present
2.	pants	payers	Other	Indirect	Benefits		Ratio	ment	Costs	value
	-\$1	\$0	\$0	\$0	-\$1	-\$6	-\$0.11	n/e	-\$7	48%

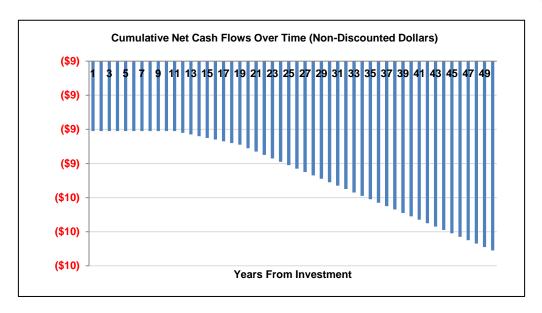
Detailed Monetary Benefit Estimates

Deta	led Monetary Benefit Estimates							
	Benefits to:							
Source of Benefits	Partici- Tax- Other In- Total pants payers Other direct Benefits							
From Primary Participant								
Earnings via test scores	-\$1 \$0 \$0 \$0 -\$1							

Detailed Cost Estimates

The figures shown are estimates of the costs to	Pro	ogram Co	sts	Com	parison C	osts	Summary	Statistics
implement programs in Washington. The comparison group costs reflect either no							Present Value of Net Program	
treatment or treatment as usual, depending on how effect sizes were calculated in the meta-	Annual Cost	Program Duration	Year Dollars	Annual Cost	Program Duration	Year Dollars	Costs (in 2011 dollars)	Uncertainty (+ or – %)
analysis. The uncertainty range is used in Monte Carlo risk analysis, described in Technical Appendix 2.	\$59	1	2010	\$53	1	2010	\$6	20%

Source: We assumed that school districts provide 10 days' worth, on average, of professional development time spread out over the school year (similar to Washington State allocations for learning improvement days). We calculated the value of professional development time using average teacher salaries (including benefits) in Washington State. To calculate a per-student annual cost, we assume that each teacher has an average of three classrooms with an average of 25 students per classroom. The increase in treatment group costs relative to the comparison group represents one additional day of professional development time.



Multiplicative Adjustments Applied to the Meta-Analysis

1- Less well-implemented comparison group or observational study, with some covariates. 2- Well-implemented comparison group design, often with many statistical controls. 3- Well-done observational study with many statistical controls (e.g., IV, regression discontinuity). 4- Random assignment, with some RA implementation issues.	0.5
3- Well-done observational study with many statistical controls (e.g., IV, regression discontinuity).4- Random assignment, with some RA implementation issues.	0.5
4- Random assignment, with some RA implementation issues.	0.5
	0.75
F. Mall days and days and broad at the	0.75
5- Well-done random assignment study.	1.00
Program developer = researcher	0.5
Unusual (not "real world") setting	0.5
Weak measurement used	0.5

Studies Used in the Meta-Analysis

Harris, D. N., & Sass, T. R. (2011). Teacher training, teacher quality and student achievement. *Journal of Public Economics*, *95*(7-8), 798-812. Jacob, B. A., & Lefgren, L. (2004). Remedial education and student achievement: A regression-discontinuity analysis. *The Review of Economics and Statistics*, *86*(1), 226-244.